

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Levenberg, et al.

Filing Date:
December 9, 2003Group:
1632

U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Publication Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
MS	WO01/88104	PCT	22 November 2001		

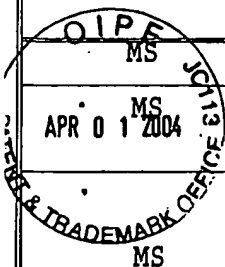
OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
MS	Abe, et al., "Endoderm-Specific Gene Expression in Embryonic Stem Cells Differentiated to Embryoid Bodies", <i>Exp. Cell. Res.</i> , 229 : 27-34, 1996.
MS	Allen, et al., "Epidermal Growth Factor Induces Acute Matrix Contraction and Subsequent Calpain-Modulated Relaxation", <i>Wound Repair Regen</i> , 10 : 67-76, 2002.
MS	Ballermann, et al., "Shear Stress and the Endothelium", <i>Kidney Int</i> , 54 , Suppl. 67: S100-108, 1998.
MS	Carter, et al., "Mechanobiology of Skeletal Regeneration", <i>Clin. Orthop</i> , (355S): S41-S55, 1998.
MS	Darland, et al., "TGF Beta is Required for the Formation of Capillary-Like Structures in Three-Dimensional Cocultures of 10T1/2 and Endothelial Cells", <i>Angiogenesis</i> , 4 : 11-20, 2001.
MS	Dinsmore, et al., "Embryonic Stem Cells Differentiated in Vitro as a Novel Source of Cells for Transplantation", <i>Cell Transplant</i> , 5 (2): 131-143, 1996.
MS	Donovan, et al., "The End of the Beginning for Pluripotent Stem Cells", <i>Nature</i> , 414 : 92-97, 2001.
MS	Folkman, et al., "Blood Vessel Formation: What is its Molecular Basis? <i>Cell</i> , 87 : 1153-1155, 1996.
MS	Freyman, et al., "Fibroblast Contractile Force is Independent of the Stiffness Which Resists the Contraction", <i>Exp. Cell Res.</i> 272 : 153-162, 2002.
MS	Guan, et al., "Embryonic Stem Cell-Derived Neurogenesis. Retinoic Acid Induction and

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MS	Lineage Selection of Neuronal Cells", <i>Cell Tissue Res</i> , 305: 171-176, 2001.
MS APR 01 2004	Hamazaki, et al., "Heptatic Maturation in Differentiating Embryonic Stem Cells in Vitro", <i>FEBS Letters</i> , 497: 15-19, 2001.
MS	Ingber, et al., "Mechanochemical Switching Between Growth and Differentiation During Fibroblast Growth Factor-Stimulated Angiogenesis in Vitro: Role of Extracellular Matrix", <i>J. Cell Biol.</i> , 109: 317-330, 1989.
MS	Ito, Y., "Surface Micropatterning to Regulate Cell Functions," <i>Biomaterials</i> , 20: 2333-2342, 1999.
MS	Johansson, et al., "Evidence for Involvement of Activin A and Bone Morphogenetic Protein 4 in Mammalian Mesoderm and Hematopoietic Development" <i>Mol. Cell Biol.</i> 15(1): 141-151, 1995.
MS	Kaufman, et al., "Hematopoietic Colony-Forming Cells Derived From Human Embryonic Stem Cells", <i>Proc. Natl Acad Sci USA</i> , 98(19): 10716-10721, 2001.
MS	Kaushall, et al., "Functional Small-Diameter Neovessels Created Using Endothelial Progenitor Cells Expanded <i>Ex Vivo</i> " <i>Nat. Med.</i> , 7(9): 1035-1040, 2001.
MS	Kinner, et al., "Regulation of Smooth Muscle Actin Expression and Contraction in Adult Human Mesenchymal Stem Cells", <i>Exp Cell Res</i> , 278: 72-83, 2002.
MS	Kleinman, et al., "Basement Membrane Complexes with Biological Activity" <i>Biochem.</i> 25: 312-318, 1986.
MS	Lammert, et al., "Induction of Pancreatic Differentiation by Signals from Blood Vessels", <i>Science</i> , 294: 564-567, 2001.
MS	Levenberg, et al., "Endothelial Cells Derived from Human Embryonic Stem Cells", <i>Proc. Natl. Acad. Sci. USA</i> , 99(7): 4391-4396, 2002.
MS	Levinson, et al., "Embryogenesis in Vitro: Study of Differentiation of Embryonic Stem Cells", <i>Biol. Neonate</i> , 67: 77-83, 1995.
MS	Manova, et al., "Expression of Activins and TGF Beta 1 and Beta 2 RNAs in Early Postimplantation Mouse Embryos and Uterine Decidua", <i>Mech Dev</i> , 36: 141-152, 1992.
MS	Matsumoto, et al., "Liver Organogenesis Promoted by Endothelial Cells Prior to Vascular Function", <i>Science</i> , 294: 559-563, 2001.
MS	Naumann, et al., "Immunochemical and Mechanical Characterization of Cartilage Subtypes in Rabbit", <i>J. Histochem Cytochem.</i> , 50(8): 1049-1058, 2002.
MS	Niklason, et al., "Functional Arteries Grown in Vitro", <i>Science</i> , 284: 489-493, 1999.
MS	Ninomiya, et al., "Endoderm Differentiation and Inductive Effect of Activin-Treated Ectoderm in <i>Xenopus</i> ", <i>Dev Growth Differ.</i> , 41: 391-400, 1999.
MS	Nomi, et al., "Principals of Neovascularization for Tissue Engineering", <i>Mol. Aspects Med.</i> , 23: 463-483, 2002.
MS	Odorico, et al., "Multilineage Differentiation from Human Embryonic Stem Cell Lines", <i>Stem Cells</i> , 19: 193-204, 2001.

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Offield, et al., "PDX-1 is Required for Pancreatic Outgrowth and Differentiation of the Rostral Duodenum", *Development*, 122: 983-995, 1996.Pegoretti, et al., "In Vitro Degradation of Poly(L-Lactic Acid) Fibers Produced by Melt Spinning", *J. Appl. Polym Sci.*, 64: 213-223, 1997.Risau, et al., "Vasculogenesis", *Annu. Rev. Cell. Dev. Biol.*, 11: 73-91, 1995.Schuldiner, et al., "Effects of Eight Growth Factors on the Differentiation of Cells Derived from Human Embryonic Stem Cells", *Proc. Natl. Acad. Sci. USA*, 97(21): 11307-11312, 2000.Semler, et al., "Mechanochemical Manipulation of Hepatocyte Aggregation can Selectively Induce or Repress Liver-Specific Function", *Biotechnol Bioeng.* 69(4): 359-369, 2000.Semler, et al., "Engineering Hepatocyte Functional Fate through Growth Factor Dynamics: The Role of Cell Morphologic Priming", *Biotechnol Bioeng.* 75(5): 510-520, 2001.Smith, "Identification of a Potent Xenopus Mesoderm-Inducing Factor as a Homologue of Activin A", *Nature*, 345: 729-731, 1990.Stocum, D.L. "Stem Cells in Regenerative Biology and Medicine", *Wound Repair Regen*, 9: 429-442, 2001.Taub, et al., "Epidermal Growth Factor or Transforming Growth Factor α is Required for Kidney Tubulogenesis in Matrigel Cultures in Serum-Free Medium", *Proc. Natl. Acad. Sci. USA*, 87(10): 4002-4006, 1990.Thomson, et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts", *Science*, 282: 1145-1147, 1998.Tiedemann, et al., "Pluripotent Cells(Stem Cells) and Their Determination and Differentiation in Early Vertebrate Embryogenesis", *Dev. Growth Differ*, 43: 469-502, 2001.Vacanti, et al., "Selective Cell Transplantation Using Bioabsorbable Artificial Polymers as Matrices", *Journal of Pediatric Surgery*, 23(1): 3-9, 1988.Vukicevic, et al., "Identification of Multiple Active Growth Factors in Basement Membrane Matrigel Suggests Caution in Interpretation of Cellular Activity Related to Extracellular Matrix Components", *Exp. Cell Res.* 202: 1-8, 1992.Wobus, A.M., "Potential of Embryonic Stem Cells", *Mol Aspects Med*, 22: 149-164, 2001.Zaleskas, et al., "Growth Factor Regulation of Smooth Muscle Actin Expression and Contraction of Human Articular Chondrocytes and Meniscal Cells in a Collagen-GAG Matrix", *Exp Cell Res.*, 270: 21-31, 2001.

EXAMINER /Magdalene Sgagias/

DATE CONSIDERED 09/01/2006

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